

# ANATOMY AND PHYSIOLOGY

1	Course Title:	ANATOMY AND PHYSIOLOGY
2	Course Code:	LVSZ101
3	Type of Course:	Compulsory
4	Level of Course:	Short Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	7.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	2
11	Prerequisites:	none
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. Cenk Aydın
15	Course Lecturers:	Prof Dr Cenk AYDIN Doç Dr İlker Arıcan
16	Contact information of the Course Coordinator:	Prof Dr Cenk AYDIN Bursa Uludağ Üniversitesi Veteriner Fakültesi Fizyoloji AD. Nilüfer - Bursa eposta : caydin@uludag.edu.tr tel:+90 (224) 294-1274
17	Website:	
18	Objective of the Course:	Teach fundamental anatomy and physiological terminology. To teach comparatively the anatomy and physiology of the movement, nervous, muscular, digestive, respiratory, circulatory and urogenital systems of domestic animals, their normal shape, structure, function, natural posture and their relations with neighboring organs.
19	Contribution of the Course to Professional Development:	To be able to define the developmental and morphological parts of tissues, organs and organs related to all systems in the animal body. To be able to comprehend the morphologically defined sections functionally and to be able to comment on the structure-function relationship.
20	Learning Outcomes:	
	1	The student learns the basic anatomical terminology of veterinary medicine.
	2	The student learns the basic concepts of systematical anatomy, the domestic animal species in veterinary anatomy and their places in zoological system.
	3	The student learns basic features of locomotor system and nervous system of the domestic mammals and constant anatomical similarities and differences between them.
	4	The student learns normal position, shape, structure, natural posture of the viscera, e.g. digestive, respiratory, urinary, genital, cardiovascular organs and their relations with neighbor organs of the domestic mammals, comparatively
	5	The student learns cell and blood physiology
	6	The student learns structure and function of muscle system

		7	The student learns endocrine system and reproductive physiology	
		8	The student learns structure and function of nerve system, sensory organs	
		9	The student learns gastrointestinal and nutritional physiology in different species	
		10	The student learns structure and function of respiratory and renal systems.	
21	Course Content:			
	Course Content:			
Week	Theoretical	Practice		
1	Introduction to anatomy and general terminology. Definition and sections of the systematical anatomy and locomotor system, introduction to osteology.	Presentation of related organs in slides		
2	Definition and importance of the cranium, examination of bones of the cranium in domestic mammals comparatively.	Examination of the cranial bones.		
3	Definition and sections of the vertebral column, general features of the vertebra, anatomical and numerical differences between the species, definition and sections of the ribs and sternum, differences between the species and formation of the thorax.	Examination of the vertebral column, ribs and sternum.		
4	Definiton of bones of the pelvic limb, formation of the pelvis, examination of the	Presentation of the bones of thoracic limb and the bones of pelvic limb in slides		
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical	structures associated with muscles, skeletal musculature and muscles of the head, trunk,	14	2.00	28.00
Practicals/Labs		14	2.00	28.00
Self study and preparation	Definition and sections of the digestive and respiratory organs.	Presentation of the digestive and respiratory systems in slides.	50.00	50.00
Homeworks		2	50.00	100.00
Projects	Introduction to cardiovascular system, anatomy of heart, general knowledge about	Presentation of the cardiovascular system and the urinary organs in slides	0.00	0.00
Field Studies		0	0.00	0.00
Midterm exams	Definition and sections of the urinary organs.	1	2.00	2.00
Others		0	0.00	0.00
Final Exams		1	2.00	2.00
Total Work Load				210.00
Total work load/ 30 hr				7.00
ECTS Credit of the Course				7.00
	physiology			
11	Introduction of endocrine system, reproductive physiology	Counting erythrocytes and leukocytes		
12	Nervous system, classification and characteristics of nerve fibre and sensory organs	Examination of Neuromuscular slides microscopically		
13	Introduction to digestive physiology, its description in herbivores, digestion of intestines	Grasping, mastication and rumination in ruminants		
14	Physiology of respiratory and urologic systems	Physiological evaluation of urine.		

22	Textbooks, References and/or Other Materials:	1.Bahadır A., Yıldız H., Veteriner Anatomi-Hareket Sistemi, Ezgi Kitapevi, Bursa, 2004. 2.Bahadır A., Yıldız H., Veteriner Anatomi-II, İç organlar, Ezgi Kitapevi, Bursa, 2005. 3. Yaman, K. Fizyoloji. Uludağ Üniversitesi Güçlendirme Vakfı Yayınevi, Bursa, 1999. 4.William O. Reece, (Çevirmen: Mukaddes Özcan, Ülker Çötelioglu) Evcil Hayvanların Fonksiyonel Anatomisi ve Fizyolojisi, Nobel Akademik Yayıncılık, 2012.	
23	Assesment		
TERM LEARNING ACTIVITIES		NUMBE R	WEIGHT
Midterm Exam		1	40.00
Quiz		0	0.00
Home work-project		0	0.00
Final Exam		1	60.00
Total		2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00	
Contribution of Final Exam to Success Grade		60.00	
Total		100.00	
Measurement and Evaluation Techniques Used in the Course		"Norm Based Assessment" will be applied after the measurement to be made with multiple choice questions, questions with correct or incorrect options, questions with short answers and Matching questions.	
24	ECTS / WORK LOAD TABLE		

<b>25</b>	<b>CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS</b>															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	3	0	0	0	0	3	3	4	2	4	0	4	0	0	0	0
ÖK2	1	1	1	2	4	4	3	4	4	2	0	3	0	0	0	0
ÖK3	3	4	1	3	3	1	4	3	2	4	1	4	0	0	0	0
ÖK4	3	4	1	3	3	2	3	2	2	2	2	4	0	0	0	0
ÖK5	0	1	4	5	4	1	4	2	1	5	2	4	0	0	0	0
ÖK6	0	0	0	3	0	1	3	1	5	1	1	3	0	0	0	0
ÖK7	1	0	2	4	3	5	4	5	1	5	1	4	0	0	0	0
ÖK8	0	0	0	3	0	1	3	1	4	1	1	3	0	0	0	0
ÖK9	0	1	1	5	1	2	4	2	5	4	1	5	0	0	0	0
ÖK10	0	0	0	3	0	1	3	1	3	4	1	4	0	0	0	0
<b>LO: Learning Objectives    PQ: Program Qualifications</b>																
<b>Contribution Level:</b>	<b>1 very low</b>		<b>2 low</b>		<b>3 Medium</b>		<b>4 High</b>		<b>5 Very High</b>							

